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U.S. Department of the Interior • U.S. Geological Survey

# MINERAL INDUSTRY SURVEYS

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## SULFUR IN JULY 1996

During the month, production of combined Frasch and recovered elemental sulfur was 860,000 metric tons, according to the U.S. Geological Survey. July production was 6% higher than that of June 1996, and 5% lower than that of July 1995. Shipments of these combined products were 9% higher than those of June 1996.

Import and export data for July 1996 were not available at

the time of publication. Import/export data and apparent consumption for July 1996 will be published in the August 1996 Sulfur Mineral Industry Surveys. Imports of recovered sulfur for June 1996 were 122,000 tons. Exports of sulfur, for the same period, were 124,000 tons. Imports of sulfuric acid for June 1996 were 140,000 tons; exports were 8,000 tons.

TABLE 1  
SALIENT SULFUR STATISTICS 1/

(Thousand metric tons)

Period	Production				Shipments, all sources
	Frasch 2/	Petroleum 3/	Natural gas	Total	
1995	759	5,020	4,580	10,400	10,700
Jan.-June 1995	759	2,880	2,320	5,960	6,310
1995:					
July	W	443	460 4/	903	910
August	W	411	448 4/	859	912
September	W	425	464 4/	889	851
October	W	431	420 4/	851	842
November	W	434	459 4/	893	905
December	W	443	460 4/	903	917
1996:					
January	W	433	449 4/	882	884
February	W	406	419 4/	825	815
March	W	430	424 4/	854	835
April	W	449	423 4/	872	898
May	W	467	422 4/	889	863
June	W	416	397 4/	813	763
July	W	433	427 p/ 4/	860 p/	832 p/
Year to date	W	3,030 p/	2,960 p/	6,000 p/	5,890 p/

p/ Preliminary. W Withheld to avoid disclosing company proprietary data; included with "Natural gas."

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Estimates based on information available from the Texas Comptroller of Public Account and company quarterly reports.

3/ Includes a small quantity from coking operations.

TABLE 2  
U.S. IMPORTS OF SULFUR 1/

(Thousand metric tons and thousand dollars)

Period	Canada		Mexico		Total, all countries 2/	
	Quantity	Value 3/	Quantity	Value 3/	Quantity	Value 3/
1995	1,670	65,000	502	28,900	2,200	99,700
Jan.-June 1995	827	30,800	240	14,800	1,070	48,400
1995:						
June	127	5,180	40	2,420	167	8,150
July	148	6,400	61	3,660	210	10,500
August	136	6,520	41	2,130	177	8,890
September	136	5,470	41	2,430	177	7,970
October	158	5,910	41	2,120	199	9,020
November	151	5,250	38	1,970	189	7,510
December	116	4,020	40	1,800	174	6,870
1996:						
January	96	4,780	18	781	135	7,070
February	96	4,140	37	1,910	150	7,080
March	93	2,480	37	1,720	130	4,680
April	82	2,220	37	1,990	119	4,660
May	119	2,400	37	1,280	171	5,520
June	85	1,500	36	1,760	122	3,780
Year to date	571	17,500	202	9,440	827	32,800

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ May include other countries not listed.

3/ Declared customs valuation.

Source: Bureau of the Census.

TABLE 3  
U.S. IMPORTS OF SULFURIC ACID 1/

(Thousand metric tons and thousand dollars)

Period	Canada			Europe			Total 2/		
	Quantity	Sulfur content	Value 3/	Quantity	Sulfur content	Value 3/	Quantity	Sulfur content	Value 3/
1995	1,660	544	61,500	95	30	710	1,900	619	66,500
Jan.-June 1995 4/	881	288	33,200	61	19	380	1,020	332	34,700
1995:									
June	106	35	4,650	13	4	49	120	39	4,740
July	121	40	4,300	--	--	--	125	41	4,750
August	121	40	4,630	14	5	101	148	48	5,120
September	147	48	5,350	10	3	111	162	53	6,250
October	147	48	5,290	(5/)	(5/)	2	185	60	5,790
November	136	45	4,900	10	3	116	147	48	5,060
December	133	44	4,260	--	--	--	139	45	5,280
1996:									
January	112	37	3,420	9	3	113	144	47	4,120
February	110	36	2,700	11	4	232	188	62	3,550
March	114	47	3,900	35	12	466	199	65	4,510
April	126	41	3,620	40	13	421	202	66	4,350
May	147	48	3,990	20	7	223	192	63	4,510
June	113	37	2,670	21	7	160	140	46	3,460
Year to date	722	246	20,300	136	46	1,620	1,070	349	24,500

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ May include other countries not listed.

3/ Declared customs valuation.

4/ May include revisions of prior months.

5/ Less than 1/2 unit.

Source: Bureau of the Census.

TABLE 4  
U.S. EXPORTS OF SULFUR AND SULFURIC ACID 1/

(Thousand metric tons and thousand dollars)

Period	Sulfur		Sulfuric Acid		
	Quantity	Value 2/	Quantity	Sulfur content	Value 2/
1995	905	66,200	171	56	12,800
Jan.-June 1995	607	45,000	87	28	6,280
1995:					
June	78	5,700	20	7	1,430
July	13	2,330	18	6	1,170
August	61	5,440	7	2	886
September	10	1,580	16	5	1,110
October	104	7,060	17	6	1,530
November	51	3,690	11	4	1,050
December	99	5,340	6	2	774
1996:					
January	51	3,000 e/	13	4	1,370
February	44	3,000 e/	6	2	805
March	7	1,210	10	3	900
April	120	2,590	7	2	938
May	16	2,350	9	3	1,080
June	124	4,990	8	3	785
Year to date	362	17,100	53	17	5,880

e/ Estimated.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Declared f.a.s. (free alongside ship) valuation.

Source: Bureau of the Census.

TABLE 5  
U.S. CONSUMPTION OF SULFUR 1/

(Thousand metric tons)

Period	Domestic sources 2/	Imports	Consumption
1995	9,830	2,200	12,000
Jan.-June 1995	4,840	1,070	5,910
1995:			
June	818	167	985
July	897	210	1,110
August	851	177	1,030
September	841	177	1,020
October	738	199	937
November	854	189	1,040
December	818	174	992
1996:			
January	833	135	968
February	771	150	921
March	828	130	958
April	778	119	897
May	847	171	1,020
June	639	122	761
Year to date	4,700	827	5,520

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Calculated as shipments minus exports.

TABLE 6  
RECOVERED SULFUR PRODUCED AND SHIPPED IN THE UNITED STATES,  
BY PAD (PETROLEUM ADMINISTRATION FOR DEFENSE) DISTRICT 1/

(Thousand metric tons)

District and source	July 1996 p/		June 1996 p/		Year to date 1996 p/		Year to date 1995 2/	
	Production	Shipments	Production	Shipments	Production	Shipments	Production	Shipments
PAD 1:								
Petroleum and coke	17	18	16	15	122	129	145	143
Natural gas	5	5	4	4	30	30	30	30
Total	21	23	20	19	151	159	175	173
PAD 2:								
Petroleum and coke	78	77	76	75	518	517	519	517
Natural gas	4	4	4	5	29	29	39	31
Total	82	81	80	80	547	546	550	548
PAD 3: 3/								
Petroleum and coke	252	246	240	235	1,790	1,770	1,640	W
Natural gas 4/	326	308	318	290	2,310	2,230	2,310	W
Total	578	554 5/	558	525 5/	4,100	4,000 5/	3,950	3,810 5/
PAD 4 and 5: 6/								
Petroleum and coke	87	89	84	80	607	605	582	582
Natural gas	91	85	71	59	592	578	592	577
California	69	69	66	63	475	473	452	454
Total	179	174	155	139	1,200	1,180	1,170	1,160
Grand total	860	832	813	763	6,000	5,890	5,850	5,690

p/ Preliminary. W Withheld to avoid disclosing company proprietary data.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ May include revisions for prior months.

3/ Includes Puerto Rico and the U.S. Virgin Islands.

4/ Frasch production is included in the natural gas production to avoid disclosing company proprietary data.

5/ Includes data from Frasch producers.

6/ Quantities produced and shipped in California included in petroleum and natural gas. California total shown for information purposes only.

TABLE 7  
COMPARATIVE SULFUR AND SULFURIC ACID STATISTICS 1/

(Million metric tons per year [annualized basis] and dollars per metric ton for period shown)

	1996			1995
	July	June	Year to date	Total
Production	10.20 p/	9.92	10.30 p/	10.40
Shipments	9.82 p/	9.31	10.10 p/	10.70
Exports of sulfur	NA	1.51	0.73	0.91
Imports of sulfur:				
Canada	NA	1.04	1.15	1.67
Mexico	NA	0.44	0.41	0.50
Total	NA	1.49	1.66	2.20
Exports of H <sub>2</sub> SO <sub>4</sub>	NA	0.10	0.11	0.17
Imports of H <sub>2</sub> SO <sub>4</sub> :				
Canada	NA	1.38	1.45	1.66
Europe	NA	0.26	0.27	0.17
Total 2/	NA	1.71	2.14	1.90
Consumption: 3/				
Domestic sources	NA	8.64	9.58	9.83
Imports	NA	1.49	1.66	2.20
Total	NA	10.10	11.30	12.00
Sulfur export values 4/	NA	\$40	\$47	\$73
Sulfur import values: 4/				
Canada	NA	\$18	\$30	\$39
Mexico	NA	\$49	\$47	\$58
Average	NA	\$31	\$40	\$43
H <sub>2</sub> SO <sub>4</sub> export values 4/	NA	\$98	\$111	\$75
H <sub>2</sub> SO <sub>4</sub> import values: 4/				
Canada	NA	\$24	\$28	\$37
Europe	NA	\$8	\$12	\$7
Average	NA	\$25	\$23	\$35

p/ Preliminary. NA Not available.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes other countries not listed.

3/ Because trade data was not available, July consumption was not determined.

4/ Average value per ton for most recent data available.